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Total Number of Pages in This Submission

Application Number

10/038,957

Filing Date

January 2, 2002

First Named Inventor

Vaidyanathan

Group Art Unit

1755

Examiner Name

Unassigned

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JUL 17 2002
TC 1700

Attorney Docket Number

003248.0002

ENCLOSURES (check all that apply)

Fee Transmittal Form

Fee Attached

Amendment / Response

After Final

Affidavits/declaration(s)

Extension of Time Request

Express Abandonment Request

Information Disclosure Statement

Certified Copy of Priority Document(s)

Response to Missing Parts/ Incomplete Application

Response to Missing Parts under 37 CFR 1.52 or 1.53

Assignment Papers
(for an Application)

Drawing(s)

Licensing-related Papers

Petition

Petition to Convert to a Provisional Application

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Appeal Communication to Board of Appeals and Interferences

Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)

Proprietary Information

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Other Enclosure(s)
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26 References
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Banner & Witcoff, Ltd.

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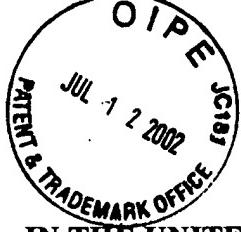
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In re U.S. Patent Application of Vaidyanathan,)
et al.)
Application No. 10/038,957)
Examiner: Unassigned)
Filed: January 2, 2002)
Art Unit: 1755)
For: CONTINUOUS FIBER REINFORCED)
COMPOSITES AND METHODS,)
APPARATUSES, AND COMPOSITIONS FOR)
MAKING THE SAME)

45

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington DC 20231

Sir:

Pursuant to 37 CFR §§1.97-1.98, applicants wish to make the following references of record in the above-identified application. Copies of the references cited below are enclosed. The references also are listed on the enclosed and completed Form PTO/SB/08A.

This Information Disclosure Statement is filed under 37 CFR §1.97(b) within three months of this application's filing date and/or before the mailing of a first Office Action on the merits. Accordingly, there is no fee due for filing this Information Disclosure Statement.

REFERENCES

U.S. Patents

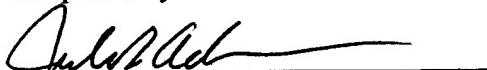
1.	5,024,978	Allaire, et al.	June 18, 1991
2.	5,250,243	Allaire, et al.	October 5, 1993
3.	5,936,861	Jang, et al.	August 10, 1999

Non-Patent Literature Documents

- ✓ 1. M. K. Aghajanian, M. A. Rocazella, J. T. Burke, and S. D. Keck, "The Fabrication of Metal Matrix Composites by a Pressureless Infiltration Technique," *J. Mater. Sci.*, 26 447-54 (1991).
- ✓ 2. J. J. Brennan and K. M. Prewo, "Silicon Carbide Fibre Reinforced Glass-Ceramic Matrix Composites Exhibiting High Strength and Toughness," *J. Mater. Sci.*, 17 2371-83 (1982).
- ✓ 3. M. K. Brun, W. B. Hillig, and H. C. McGuigan, "High Temperature Mechanical Properties of a Continuous Fiber-Reinforced Composite Made by Melt Infiltration," *Ceram. Eng. Sci. Proc.*, 10 [7-8] 611-21 (1989).
- ✓ 4. A. J. Caputo and W. J. Lackey, "Fabrication of Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," *Ceram. Eng. Sci. Proc.*, 5 [7-8] 654-67 (1984).
- ✓ 5. A. J. Caputo, W. J. Lackey, and D. P. Stinton, "Development of a New, Faster, Process for the Fabrication of Ceramic Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," *Ceram. Eng. Sci. Proc.*, 6 [7-8] 694-706 (1985).
- ✓ 6. D. R. Dryell and C. W. Freeman, "Trends in Design in Turbines for Aero Engines," pp. 38-45 in Materials Development in Turbo-Machinery Design; 2nd Parsons International Turbine Conference, Edited by D. M. R. Taplin, J. F. Knott, and M. H. Lewis, The Institute of Metals, Parsons Press, Trinity College, Dublin, Ireland, 1989.
- ✓ 7. E. Fitzer and R. Gadow, "Fibre Reinforced Composites Via the Sol/Gel Route," pp. 571-607 in Tailoring Multiphase and Composite Ceramics, Materials Science Research Symposium Proceedings, Vol. 20, edited by R. E. Tressler et al., Plenum Press, New York, 1986.
- ✓ 8. Flight-Vehicle Materials, Structures and Dynamics - Assessment and Future Directions, Vol. 3, Ceramics and Ceramic Matrix Composites, edited by S. R. Levine, The American Society of Mechanical Engineers, New York, 1992. (Pursuant to 37 CFR §1.56, Applicants have included Chapters 1-4 of this book. If deemed necessary by the Examiner, Applicants will submit the remaining chapters.)
- ✓ 9. J. Jamet, J. R. Spann, R. W. Rice, D. Lewis, and W. S. Coblenz, "Ceramic-Fiber Composite Processing Via Polymer-Filler Matrices," *Ceram. Eng. Sci. Proc.*, 5 [7-8] 677-94 (1984).
- ✓ 10. M. A. Karnitz, D. F. Craig, and S. L. Richlen, "Continuous Fiber Ceramic Composite Program," *Am. Ceram. Soc. Bull.*, 70 [3] 430-35 (1991).
- ✓ 11. H. Kodama, H. Sakamoto, and T. Miyoshi, "Silicon Carbide Monofilament-Reinforced Silicon Nitride or Silicon Carbide Matrix Composites," *J. Am. Ceram. Soc.*, 72 [4] 551-58 (1989).
- ✓ 12. P. J. Lamicq, G. A. Bernhart, M. M. Dauchier, and J. G. Mace, "SiC/SiC Composite Ceramics," *Am. Ceram. Soc. Bull.*, 65 [2] 336-38 (1986).

13. J. J. Lannutti and D. E. Clark, "Long Fiber Reinforced Sol-Gel Derived Al₂O₃ Composites," pp. 375-81 in *Better Ceramics Through Chemistry*, Material Research Society Symposia Proceedings, Vol. 32, North-Holland, New York, 1984.
14. T. I. Mah, M. G. Mendiratta, A. P. Katz, and K. S. Mazdiyasni, "Recent Developments in Fiber-Reinforced High Temperature Ceramic Composites," *Am. Ceram. Soc. Bull.*, 66 [2] 304-08 (1987).
15. R. L. Mehan, W. B. Hillig, and C. R. Morelock, "Si/SiC Ceramic Composites: Properties and Applications," *Ceram. Eng. Sci. Proc.*, 1 405-418 (1980).
16. M. S. Newkirk, A. W. Urquhart, H. R. Zwicker, and E. Breval, "Formation of Lanxide Ceramic Composite Materials," *J. Mater. Res.*, 1 81-89 (1986).
17. D. C. Phillips, "Fiber Reinforced Ceramics," Chapter 7 in Fabrication of Composites, edited by A. Kelly and S. T. Mileiko, North-Holland Publishing Company, Amsterdam, The Netherlands, 1983.
18. K. M. Prewo and J. J. Brennan, "High Strength Silicon Carbide Fibre Reinforced Glass-Matrix Composites," *J. Mater. Sci.*, 15 463-68 (1980).
19. K. M. Prewo and J. J. Brennan, "Silicon Carbide Yarn Reinforced Glass Matrix Composites," *J. Mater. Sci.*, 17 1201-06 (1982).
20. K. M. Prewo, "Fiber-Reinforced Ceramics: New Opportunities for Composite Materials," *Am. Ceram. Soc. Bull.*, 68 [2] 395-400 (1989).
21. K. Sato, T. Suzuki, O. Funayama, T. Isoda, "Preparation of Carbon Fiber Reinforced Composite by Impregnation with Perhydropolysilazane Followed by Pressureless Firing," *Ceram. Eng. Sci. Proc.*, 13 [9-10] 614-21 (1992).
22. J. R. Strife, J. J. Brennan, and K. M. Prewo, "Status of Continuous Fiber-Reinforced Ceramic Matrix Composite Processing Technology," *Ceram. Eng. Sci. Proc.*, 11 [7-8] 871-919 (1990).
23. L. R. White, T. L. Tompkins, K. C. Hsieh, and D. D. Johnson, "Ceramic Filters for Hot Gas Cleanup," *J. Eng. for Gas Turbines and Power*, Vol. 115, 665-69 (1993).

Respectfully submitted



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Complete If Known

Application Number	10/028,957
Filing Date	January 2, 2002
First Named Inventor	Vaidyanathan
Group Art Unit	1755
Examiner Name	Unassigned

JUL 17 2002
TC 1700

Attorney Docket Number

03248.00042

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US 5,024,978	06/18/91	Allaire, et al.	
		US 5,250,243	10/05/93	Allaire, et al.	
		US 5,936,861	08/10/99	Jang, et al.	

FOREIGN PATENT DOCUMENTS

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		M. K. Aghajanian, M. A. Rocazella, J. T. Burke, and S. D. Keck, "The Fabrication of Metal Matrix Composites by a Pressureless Infiltration Technique," <i>J. Mater. Sci.</i> , 26 447-54 (1991).	
		J. J. Brennan and K. M. Prewo, "Silicon Carbide Fiber Reinforced Glass-Ceramic Matrix Composites Exhibiting High Strength Toughness," <i>J. Mater. Sci.</i> , 17 2371-83 (1982);	
		M. K. Brun, W. B. Hillig, and H. C. McGuigan, "High Temperature Mechanical Properties of a Continuous Fiber-Reinforced Composite Made by Melt Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 10 [7-8] 611-21 (1989))	
		A. J. Caputo and W. J. Lackey, "Fabrication of Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 5 [7-8] 654-67 (1984)	
		A. J. Caputo, W. J. Lackey, and D. P. Stinton, "Development of a New, Faster, Process for the Fabrication of Ceramic Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 6 [7-8] 694-706 (1985).	
		D. R. Dryell and C. W. Freeman, "Trends in Design in Turbines for Aero Engines," pp. 38-45 in <i>Materials Development in Turbo-Machinery Design; 2nd Parsons International Turbine Conference</i> , Edited by D. M. R. Taplin, J. F. Knott, and M. H. Lewis, The Institute of Metals, Parsons Press, Trinity College, Dublin, Ireland, 1989.	
		E. Fitzer and R. Gadow, "Fiber Reinforced Composites Via the Sol-Gel Route", pp. 571-608 in <i>Tailoring Multiphase and Composite Ceramics, Materials Science Research Symposium Proceedings, Vol. 20</i> , edited by R. E. Tressler et al., Plenum Press, New York, 1986.	
		<i>Flight Vehicle Materials, Structures and Dynamics - Assessment and Future Directions</i> , Vol. 3, edited by S. R. Levine, American Society of Mechanical Engineers, New York, 1992.	
		J. Jamet, J. R. Spann, R. W. Rice, D. Lewis, and W. S. Coblenz, "Ceramic-Fiber Composite Processing via Polymer-Filler Matrices," <i>Ceram. Eng. Sci. Proc.</i> , 5 [7-8] 677-94 (1984)	
		M. A. Karnitz, D. F. Craig, and S. L. Richlin, "Continuous Fiber Ceramic Composite Program," <i>Am. Ceram. Soc. Bull.</i> , 70 [3] 430-35 (1991),	



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		H. Kodama, H. Sakamoto, and T. Miyoshi, "Silicon Carbide Monofilament-Reinforced Silicon Nitride or Silicon Carbide Matrix Composites," <i>J. Am. Ceram. Soc.</i> , 72 [4] 551-58 (1989); *	JUL 17 2002 TO 1700
		P. Lamicq, G. A. Gernhart, M. M. Danchier, and J. G. Mace, "SiC/SiC Composite Ceramics," <i>Am. Ceram. Soc. Bull.</i> , 65 [2] 336-38 (1986); *	
		J. J. Lannutti and D. E. Clark, "Long Fiber Reinforced Sol-Gel Derived Al ₂ O ₃ Composites", pp. 375-81 in <i>Better Ceramics Through Chemistry</i> , Material Research Society Symposium Proceedings, Vol. 32, North-Holland, New York, 1984. *	
		T. J. Mah, M. G. Mendiratta, A. P. Katz, and K. S. Mazdiyasni, "Recent Developments in Fiber-Reinforced High Temperature Ceramic Composites," <i>Am. Ceram. Soc. Bull.</i> , 66 [2] 304-08 (1987).;	
		R. L. Mehan, W. B. Hillig, and C. R. Morelock, "Si/SiC Ceramic Composites: Properties and Applications," <i>Ceram. Eng. Sci. Proc.</i> , 1 405 (1980). *	
		M. S. Newkirk, A. W. Urquhart, H. R. Zwicker, and E. Breval, "Formation of Lanxide Ceramic Composite Materials," <i>J. Mater. Res.</i> , 1 81-89 (1986) *	
		D. C. Phillips, "Fiber Reinforced Ceramics," Chapter 7 in <i>Fabrication of Composites</i> , edited by A. Kelly and S. T. Mileiko, North-Holland Publishing Company, Amsterdam, The Netherlands, 1983. *	
		K. M. Prewo and J. J. Brennan, "High Strength Silicon Carbide Fibre Reinforced Glass-Matrix Composites," <i>J. Mater. Sci.</i> , 15 463-68 (1980) *	
		K. M. Prewo and J. J. Brennan, "Silicon Carbide Yarn Reinforced Glass Matrix Composites," <i>J. Mater. Sci.</i> , 17 1201-06 (1982). *	
		K. M. Prewo, "Fiber-Reinforced Ceramics: New Opportunities for Composite Materials," <i>Am. Ceram. Soc. Bull.</i> , 68 [2] 395-400 (1989); *	
		K. Sato, T. Suzuki, O. Funayama, T. Isoda, "Preparation of Carbon Fiber Reinforced Composite by Impregnation with Perhydrosilazane Followed by Pressureless Firing," <i>Ceram. Eng. Sci. Proc.</i> , 13 [9-10] 614-21 (1992).	
		J. R. Strife, J. J. Brennan, and K. M. Prewo, "Status of Continuous Fiber-Reinforced Ceramic Matrix Composite Processing Technology," <i>Ceram. Eng. Sci. Proc.</i> , 11 [7-8] 871-919 (1990). *	
		L. R. White, T. L. Tompkins, K. C. Hsieh, and D. D. Johnson, "Ceramic Filters for Hot Gas Cleanup," <i>J. Eng. for Gas Turbines and Power</i> , Vol. 115, 665-69 (1993). *	

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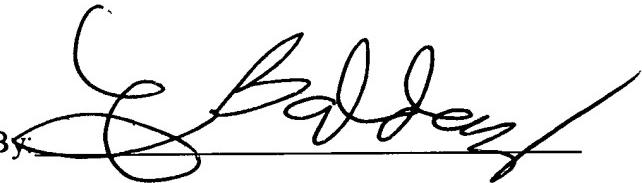


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Vaidyanathan, et al., U.S. Patent Application No. 10/038,957 for "CONTINUOUS FIBER REINFORCED COMPOSITES AND METHODS, APPARATUSES, AND COMPOSITIONS FOR MAKING THE SAME"

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